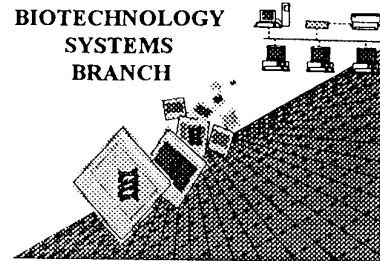


W/a

# RAW SEQUENCE LISTING ERROR REPORT



#5  
PLUNION  
4/17/00

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/4/7,522  
Art Unit / Team No. : 1643  
Date Processed by STIC: 3/29/2000

RECEIVED  
APR 17 2000  
STIC

**THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.**

**PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

**THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.**

**IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:**

**MARK SPENCER 703-308-4212**

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/417,522

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 \_\_\_\_\_ Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 \_\_\_\_\_ Wrapped Aminos      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 \_\_\_\_\_ Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 \_\_\_\_\_ Misaligned Amino Acid Numbering      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 \_\_\_\_\_ Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 \_\_\_\_\_ Variable Length      Sequence(s) \_\_\_\_\_ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 \_\_\_\_\_ PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence.
- 8 \_\_\_\_\_ Skipped Sequences (OLD RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence:  
**(2) INFORMATION FOR SEQ ID NO:X:**  
**(i) SEQUENCE CHARACTERISTICS:**(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
**(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:**  
**This sequence is intentionally skipped**  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 \_\_\_\_\_ Skipped Sequences (NEW RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence.  
**<210> sequence id number**  
**<400> sequence id number**  
**000**
- 10 ✓ \_\_\_\_\_ Use of n's or Xaa's (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 \_\_\_\_\_ Use of <213>Organism (NEW RULES)      Sequence(s) \_\_\_\_\_ are missing this mandatory field or its response.
- 12 \_\_\_\_\_ Use of <220>Feature (NEW RULES)      Sequence(s) \_\_\_\_\_ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
**Please explain source of genetic material in <220> to <223> section.**  
**(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)**
- 13 \_\_\_\_\_ PatentIn ver. 2.0 "bug"      **Please do not use "Copy to Disk" function of PatentIn version 2.0.** This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.

NA

1643

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/417,522

DATE: 03/29/2000  
TIME: 13:13:10

Input Set: I417522.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

PF 5, 3.4

1 <110> APPLICANT: Nehls, Michael Does Not Comply  
2 Zambrowicz, Brian Corrected Diskette Needed  
3 Sands, Arthur T.  
4 <120> TITLE OF INVENTION: NOVEL HUMAN POLYNUCLEOTIDES AND THE POLYPEPTIDES  
5 ENCODED THEREBY  
6 <130> FILE REFERENCE: 008535-0027-999  
7 <140> CURRENT APPLICATION NUMBER: US/09/417,522  
8 <141> CURRENT FILING DATE: 1999-10-13  
9 <160> NUMBER OF SEQ ID NOS: 503  
10 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
11 <210> SEQ ID NO 1  
12 <211> LENGTH: 40  
13 <212> TYPE: DNA  
14 <213> ORGANISM: Synthetic  
15 <400> SEQUENCE: 1  
16 tggctaggcc ccaggatagg cctcgctggc cttttttttt  
17 <210> SEQ ID NO 2  
18 <211> LENGTH: 24  
19 <212> TYPE: DNA  
20 <213> ORGANISM: Synthetic  
21 <400> SEQUENCE: 2  
22 gccatggctc cggtaggtcc agag  
23 <210> SEQ ID NO 3  
24 <211> LENGTH: 19  
25 <212> TYPE: DNA  
26 <213> ORGANISM: Rattus Norvegicus  
27 <400> SEQUENCE: 3  
28 tggctaggcc ccaggatag  
29 <210> SEQ ID NO 4  
30 <211> LENGTH: 19  
31 <212> TYPE: DNA  
32 <213> ORGANISM: Synthetic  
33 <400> SEQUENCE: 4  
34 gtccagagat ggccatagc  
35 <210> SEQ ID NO 5  
36 <211> LENGTH: 18  
37 <212> TYPE: DNA  
38 <213> ORGANISM: Synthetic  
39 <400> SEQUENCE: 5  
40 ccaggatagg cctcgctg  
41 <210> SEQ ID NO 6  
42 <211> LENGTH: 23  
43 <212> TYPE: DNA  
44 <213> ORGANISM: Bacteria Phage Lambda

See item 12 (circled portion) on Ena Summary Sheet  
inhibitory response. The only valid response are: Artificial, Unknown, or scientific name (Genus/Species)

Please correct any subsequent sequences containing this error.

PAGE: 2

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION US/09/417,522**

DATE: 03/29/2000  
 TIME: 13:13:10

Input Set: I417522.RAW

45	<400> SEQUENCE: 6	
46	tacagttttt cttgtgaaga ttg	23
47	<210> SEQ ID NO 7	
48	<211> LENGTH: 19	
49	<212> TYPE: DNA	
50	<213> ORGANISM: Bacteria Phage Lambda	
51	<400> SEQUENCE: 7	
52	gggtagtccc caccttttg	19
53	<210> SEQ ID NO 8	
54	<211> LENGTH: 20	
55	<212> TYPE: DNA	
56	<213> ORGANISM: Mus Musculus	
57	<400> SEQUENCE: 8	
58	tccaagtcct ggcattctcac	20
59	<210> SEQ ID NO 9	
60	<211> LENGTH: 277	
61	<212> TYPE: DNA	
62	<213> ORGANISM: Homo sapiens	
63	<400> SEQUENCE: 9	
64	gtgtgtgtgct gatgcaggag acaaccgcga agatggggac agaattcagta acatcgacgt	60
65	aaggggaattg aagcagaaga tcacgtgcc tgcagacacc aggaaacgcc aagaccccc	120
66	ttccacgaac caacattctt ccaccctctc caactttttt ctggaacccc ttcacttcca	180
67	accgccactc aatgtacact tcactttctc gtgctcttcc taagagagta gtgttttctt	240
68	cctccccacc gagaaaaaaa ataaaagcaa caactgg	277
69	<210> SEQ ID NO 10	
70	<211> LENGTH: 434	
71	<212> TYPE: DNA	
72	<213> ORGANISM: Homo sapiens	
73	<400> SEQUENCE: 10	
74	cgatcatgttc ctgcaaagag aaaaataagg aaaaaatctg caaaacattg aagactcatg	60
75	accacttcta aaacataaac tggatacatc acatgaactc aagaccatga ctatggagga	120
76	agatttaaca cttggcaact cttacaacaa caacaacagc aacagggaaa aacaacaaca	180
77	acaacaaccg aagagtgcga aaagaactaa tgcattctct aggttaagcct ggatggagcc	240
78	tctaagacct aacaggatgt ctgagattcc agggaagtgg cctgtgatct gtcagtaaac	300
79	aaataagaag ctaatacagc tttgtgtgtg tttctgattg gcatgggtct tgaactatct	360
80	cctacttgta gttgcagaca aagaaacagg agatgaatta ccatgttcta ggactttgtg	420
81	ttcctttcca attc	434
82	<210> SEQ ID NO 11	
83	<211> LENGTH: 407	
84	<212> TYPE: DNA	
85	<213> ORGANISM: Homo sapiens	
86	<400> SEQUENCE: 11	
87	gttcacaaca gtgttatggc gggagcaggg aggcacctac atccattgga cccatcctga	60
88	cagctgggaa ggatgtgtcc agccaccag ggatgtgcat ctggcaccca cctcacaaca	120
89	gctgttctaa ccacgtaaga agcacaaggg tcaccggtta ctctccatga gaacaaaagg	180
90	ccaaggatgc agagataatt gcatcaaagg gattcaactt cctggatgac ctcatccaa	240
91	agatctgcag agcccagata agcatcccag ggttctggca gagggcccct ccaggacag	300
92	gaaggggaca ggaagccggc tttccgtgtc tgtaccgcct tccttgggaa ggataggaca	360
93	cctgtggcca tcaagtcatt atgccccatc tttctgaaac gaaaaca	407
94	<210> SEQ ID NO 12	

PAGE: 3

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION US/09/417,522**

DATE: 03/29/2000  
 TIME: 13:13:10

Input Set: I417522.RAW

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95 <211> LENGTH: 200
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97 <213> ORGANISM: Homo sapiens
98 <400> SEQUENCE: 12
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100     gccagtcctc ctctccacgc tataccctgt gccacctcca gacacttcag agaccaggaa      120
101     taaggccctc accagaagtg cccctcaat cttggacttc ctatcctcca tggctgtaag      180
102     gaataaattc cttttctttc                                     200
103 <210> SEQ ID NO 13
104 <211> LENGTH: 128
105 <212> TYPE: DNA
106 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 13
108     atgaaggaaa agagggagaa gaaaccagct gcctggaaga ctgacctctt gagatgctct      60
109     ggagccgtgc agttgttctc actggcagat cagtccgtgc cctccaataa aagagagggt      120
110     gatcttgg                                     128
111 <210> SEQ ID NO 14
112 <211> LENGTH: 142
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 14
116     ctgaaagcaa agaactcttt agatagtgga gtcacactgg aaaaagcaca gacccttgag      60
117     tgtactgctt ggaggagagc taccctggag catttgctcc agattctgca tgagcaaaaa      120
118     ataaactttt gctgcataaa gt                                     142
119 <210> SEQ ID NO 15
120 <211> LENGTH: 149
121 <212> TYPE: DNA
122 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 15
124     acacttaatc tgggtgttct gaggtgacc tattggaata tcttgctgaa gaccacgtat      60
125     acaagatgtg aacattcatc attatgaggc tgaatgtaaa atacttcatt ttataatgaa      120
126     gaaagtcagt aaaacaattt ccagcccag                                     149
127 <210> SEQ ID NO 16
128 <211> LENGTH: 166
129 <212> TYPE: DNA
130 <213> ORGANISM: Homo sapiens
131 <400> SEQUENCE: 16
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W--> 133     tgcaaacant ggtctggncg tgcctgggcn gacaataccc ctttccgtgt cncgggaaan      120
W--> 134     gccncctta aaaaaactga ggngttgaa aaaccagtaa accctc                                     166
135 <210> SEQ ID NO 17
136 <211> LENGTH: 113
137 <212> TYPE: DNA
138 <213> ORGANISM: Homo sapiens
139 <400> SEQUENCE: 17
W--> 140     accctgatna ngagaccagc tgaggcgaat tatgagtcaa ctaaaattat ccaaaagatc      60
141     attttaccgt aaagtagttg ctgaatgtac acgaaatggt tagaaattaa att                                     113
142 <210> SEQ ID NO 18
143 <211> LENGTH: 250
144 <212> TYPE: DNA

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**Please Note:**

Explanations of n's and/or Xaa's have been either missing from or incorrectly located in the <220> - <223> section of Sequence Listing. Please review the Sequence Listing to ensure that a correct location and explanation are presented in the <220> to <223> fields of each sequence presenting at least one n or Xaa.

PAGE: 4

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/417,522

DATE: 03/29/2000  
TIME: 13:13:10

Input Set: I417522.RAW

```

145 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 18
W--> 147 - cttctnctga agaatgagaa cacttgccag ccctttgcct atgttatcac ctggaataaa 60
W--> 148 - ctggatgtgt ctnaatggaa cctgcctcct ttggggagcg catactcccg ccaggtcacc 120
149 acagccacca tgaccacctc atgcctccca tccacctgtt tcattaattt gtgcctggac 180
150 cattttcagt tttctggatg acatgggtga ggaggaggaa actcaggtaa atgataaagt 240
151 ttcgactatc 250
152 <210> SEQ ID NO 19
153 <211> LENGTH: 387
154 <212> TYPE: DNA
155 <213> ORGANISM: Homo sapiens
156 <400> SEQUENCE: 19
157 aagacagctg aatggttcca gtctttcagt cctgctcctg gccaacactg gacctctcaa 60
158 agtctagcca actcctcttc cagcgccctg ataaacaacc ccctcatgct gggaaccaca 120
159 gcagtgggct gtttttctcc ctcatgcacc ccaggaagcc tctcctcttt gcctgggctt 180
160 tcttcccaag gccttagctg ccaacccatt ttacacccat gcgaagccca tgcagtcacc 240
161 tgaagaaaag gagactcaca gaaggcccaa gatgaaagac tctttaatcc tgtggctttt 300
162 tgagttttgt ttttagcagg aagaccttat tttcaaaaca aattgttaca cagaatttgc 360
163 cagtttacag aacagatgaa taaagac 387
164 <210> SEQ ID NO 20
165 <211> LENGTH: 216
166 <212> TYPE: DNA
167 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 20
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W--> 170 cctgtgccag gctcttgttg atgccaacaa caaacccctc tgacacctct gacgggagca 120
W--> 171 tgtgaataac accgaataat cacaacaaat cctcctcatc ataaagcctt gcgnggactg 180
W--> 172 gcactcgcaa atatttaaat aantattaaa acactg 216
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174 <211> LENGTH: 541
175 <212> TYPE: DNA
176 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 21
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179 gaaaactcta ctgatgacag gcaagaagcc agactgctca gacctagagc tataaggaaa 120
180 cctgagtaag ctogggatga agttatcccc aatcaaccga ccagggtgatt ctgaagccaa 180
181 taatttggtc cttggaagtt tgtgctgtat ggaaaaaaat cacccttctt ggctgacatc 240
182 tgttttgctg gtaacacaaa tgcaacttat taatcatctc tgggtaagca agaaatgtaa 300
183 tcctgaaaat ggcttacaag agaaaatctt ggaagataag accgtaacac taaaacgcct 360
184 ctccagatgc cttaggaaca tcccgaagca gtaacagata aagtcctctc ataggattct 420
W--> 185 tggctatgtt taagtttctc atagaaaaaa ataaaaatac naaacncnaa aaaaaaaagg 480
W--> 186 gcccgngggg ccaattcagn ttggacttaa ccaggctgaa ctngttaaaa aggggggggg 540
187 g 541
188 <210> SEQ ID NO 22
189 <211> LENGTH: 492
190 <212> TYPE: DNA
191 <213> ORGANISM: Homo sapiens
192 <400> SEQUENCE: 22
W--> 193 gacgtctggg gagctcctgc nttaagtnaa acnngagggt ttngtnngcc cccagnaaan 60
W--> 194 nngantcggc canaccnnaa aaaatcccan cctcaccaag agatgacacg tgacctgggtg 120

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PAGE: 5

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION US/09/417,522**

 DATE: 03/29/2000  
 TIME: 13:13:10

Input Set: I417522.RAW

195 ggctcacc agggcataca gttttcccag ctagcaaaca aacaagccct ggtcacagcg 180  
 W--> 196 gttatagctg gctcatggtc gctcacagac actctgggca tgcattcccg tgacttanaa 240  
 197 aagaggaggc ctttggaacc tgccagtgt gtctgtgat tgtgagggtg ctggaacctg 300  
 198 gggcccatg gccctccac accagcatgg tgctctgcaa aggccagctg ctcttcaccc 360  
 199 tgtctcaatg atacacagtt tttttccca aaactttagt agcgccactc tccctatcac 420  
 W--> 200 tcgtctttta attttgccc ttattgntcc ttanattaaa aaatatcctc ctttcatngg 480  
 201 agggttggac ct 492  
 202 <210> SEQ ID NO 23  
 203 <211> LENGTH: 273  
 204 <212> TYPE: DNA  
 205 <213> ORGANISM: Homo sapiens  
 206 <400> SEQUENCE: 23  
 207 gctctgagtc aatacaagta ggaagttca actggttccc tgggtgttca ttcttgggtg 60  
 208 gagagctgtt tgggaggctg ggaaggtcca ttagaagcat aattctattc cagaggtggc 120  
 209 ttggcagatg gagcatatca tgggttaatt tctcagcatg tcacagaaag caattcctac 180  
 210 tagacctgaa gaaagtggct tctctcttaa cagaatgtta tctttttcta gagagtaata 240  
 211 tgtttttatt aaataaaaag catctaatag tac 273  
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 213 <211> LENGTH: 495  
 214 <212> TYPE: DNA  
 215 <213> ORGANISM: Homo sapiens  
 216 <400> SEQUENCE: 24  
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 218 ccagccctga acaaagatcc ctgtcaccaa gatccactgc tctgtctgtg gtcaggcaaa 120  
 219 gagaagggtta tgtctcctga gttctagtcc tccgtcctga agtccatgta atgtgagtta 180  
 220 caagccgtct gcagagggtg gcatteact ctggccagct caagttattc ggcaagggtg 240  
 221 gattgtccag tcttgaggct gtttgctggg agaagcacga cataggctat tgccagtggc 300  
 222 aaggagaaca atcctaataa gactgacagc cctgcccaa tgacatggca ttgaaaatga 360  
 W--> 223 cacctgactg aatgaanctg acccttgagg taggcacttg ancttnttca aaaaaaagg 420  
 W--> 224 gaggggaccag ccncaganga ggcattggatc caaacttttg ggatcctcan aaatgtgtga 480  
 225 agtgactcct tcttt 495  
 226 <210> SEQ ID NO 25  
 227 <211> LENGTH: 468  
 228 <212> TYPE: DNA  
 229 <213> ORGANISM: Homo sapiens  
 230 <400> SEQUENCE: 25  
 231 attttctgt agagtttaga aactgacaac tagaagacat aaatatctgt tccaactggc 60  
 232 tgctgtactt ctgtgtatga ataaattaat gttctgtttg aaacatcagt ctaagggaga 120  
 233 agagaatgta catgcagata gcctttctat cgacctctat aaccaagacg gcaagcttta 180  
 234 tgaaggagga gatgctgtct catttacaag agccaaaagc agtgttcctt aactcttggc 240  
 235 tgagggattt gccatgcagg ataactcata tactatcatg tccttagaga agacatcata 300  
 236 ttcatttgtg ttttctcgga gtaaatttta gtgccgtgat accatttggg tattcattaa 360  
 W--> 237 tatttatcac acnaagggaat taaatgggtc tcccgaaact ggcnttaacc tccttgctaa 420  
 238 cctaataatc attcaacaaa tattaactgg gcattctcaa tggggcag 468  
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 240 <211> LENGTH: 176  
 241 <212> TYPE: DNA  
 242 <213> ORGANISM: Homo sapiens  
 243 <400> SEQUENCE: 26  
 gatcatgaat ggaatgacac actctgaacc gaagagacct tacagatcat ctagtctcc 60

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the  
 Sequence Listing to ensure that a corresponding explanation is presented in the <220> to  
 <223> fields of each sequence which presents at least one n or Xaa.

✓ FYI

Input Set: I417522.RAW

Line	? Error/Warning	Original Text
132	W "N" or "Xaa" used: Feature required	gaagaagaan ctncctcnn catgagaccg ctgtgggg
133	W "N" or "Xaa" used: Feature required	tgcaaacant ggtctggncg tgccctggcn gacaatac
134	W "N" or "Xaa" used: Feature required	gccncctta aaaaaactga ngngttgaa aaaccagt
140	W "N" or "Xaa" used: Feature required	acctgatna ngagaccagc tgaggcgaat tatgagtc
147	W "N" or "Xaa" used: Feature required	cttctnctga agaatagaa cacttgccag ccctttgc
148	W "N" or "Xaa" used: Feature required	ctggatgtgt ctnaatggaa cctgcctcct ttggggag
169	W "N" or "Xaa" used: Feature required	gcctaactgn tncaggagt tctgcttgca tggacacc
171	W "N" or "Xaa" used: Feature required	tgtgaataac accgaataat cacaacaaat cctcctca
172	W "N" or "Xaa" used: Feature required	gcactcgcaa atatttaa atantattaa acactg
178	W "N" or "Xaa" used: Feature required	ngtaatnnag gnggangccc cctggtgagg gaactgac
185	W "N" or "Xaa" used: Feature required	tggtctatgt taagtttctc atagaaaaaa ataaaaata
186	W "N" or "Xaa" used: Feature required	gcccgngggg ccaattcagn ttggacttaa ccaggctg
193	W "N" or "Xaa" used: Feature required	gagctctggg gagctcctgc nttaagtnaa acnngagg
194	W "N" or "Xaa" used: Feature required	nngantcggc canaccnnaa aaaatccan cctcacca
196	W "N" or "Xaa" used: Feature required	gttatagctg gctcatggtc gctcacagac actctggg
200	W "N" or "Xaa" used: Feature required	tcgtctttta attttgcccc ttattgntcc ttanatta
223	W "N" or "Xaa" used: Feature required	cacctgactg aatgaanctg acccttgagg taggcact
224	W "N" or "Xaa" used: Feature required	gagggaccag ccncaganga ggcatggatc caaacttt
237	W "N" or "Xaa" used: Feature required	tatttatcac acnaaggaat taaatgggtc tcccgaac
259	W "N" or "Xaa" used: Feature required	gggggggctt ccttntctta gttccgaact ggggggga
260	W "N" or "Xaa" used: Feature required	gtgggtttgn ggaacttggc agcccntttt ttttacca
261	W "N" or "Xaa" used: Feature required	tncaaaaaca tggaccttna ttngggccnc cctntttn
262	W "N" or "Xaa" used: Feature required	ggggccnttg gaccttaaag gnactaaaaa ggncaagg
263	W "N" or "Xaa" used: Feature required	agtttgnccn ngccccacc aggttttttg ntttttaa
264	W "N" or "Xaa" used: Feature required	aaaaaatcct tccttcaaaa agaccaaaaa ancncgat
265	W "N" or "Xaa" used: Feature required	ccttttggg gtttaaaaaa tttaaaaacc aggnagga
266	W "N" or "Xaa" used: Feature required	ttcaaggggt tcaaaaataa ataaaaaccn atttcctt
277	W "N" or "Xaa" used: Feature required	gaagacattt aggacagttc atgtcactct gcacagat
278	W "N" or "Xaa" used: Feature required	caaactntaa agagagctta tgctcccaa atctgttt
286	W "N" or "Xaa" used: Feature required	gtgggtagaa gatcctgaag ttggtccttg ctctttt
315	W "N" or "Xaa" used: Feature required	cctctctgag tggccaggac ctncacctgg cccacagg
328	W "N" or "Xaa" used: Feature required	cacctggctg ccagctggcc tgccaactaa ttggagg
329	W "N" or "Xaa" used: Feature required	atccccccc caggtcaaat aaaccccagc cccctccn
359	W "N" or "Xaa" used: Feature required	gatctgtaga gagacagcgg aggcaaagat acctggag
372	W "N" or "Xaa" used: Feature required	ccatcagccc tcatgcccag agaccatgc caagttaa
380	W "N" or "Xaa" used: Feature required	gaaacagaat gtctgtggc angaagttcc ttcttggg
415	W "N" or "Xaa" used: Feature required	tattgtaaaa atgaataact ataggctata gactggat
416	W "N" or "Xaa" used: Feature required	gngatggaat tgggaggngg ggctttggga tgccatta
423	W "N" or "Xaa" used: Feature required	tacagaaacc tgagcgggtc anaacgttca tcttcac
424	W "N" or "Xaa" used: Feature required	aaaccaagga cagacagntg tgagagcaag ctggcagc
437	W "N" or "Xaa" used: Feature required	ttctcagaaa tggctcacia agaaacacia aaaaagg
438	W "N" or "Xaa" used: Feature required	aaggttcct tcnnnaaaan gnaaatggan cnttnanc
439	W "N" or "Xaa" used: Feature required	cacggnctn tnantgcggg taattnaaan agggncan
440	W "N" or "Xaa" used: Feature required	agggangttt tatattnccc atataaagan acaaattc
441	W "N" or "Xaa" used: Feature required	tnnttccaac tctttgccaa caagaggcca acccgggg
442	W "N" or "Xaa" used: Feature required	aaccttttgg gngganccc cctttgggca ntgccaan
449	W "N" or "Xaa" used: Feature required	ggatttcaga cnaaattcag ggaattctcc cnccccaa
451	W "N" or "Xaa" used: Feature required	acctgactgt gttttgtgca ttgtgnttat gagncggt
468	W "N" or "Xaa" used: Feature required	gacgtctggg gagctcctgc nntanntnac actctggn
474	W "N" or "Xaa" used: Feature required	ttttaaggga ttccataaca tgtttgaatt atatctat